



SAFETY DATA SHEET

1. Identification

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| Important information | *** This Safety Data Sheet is only authorised for use by HP for HP Original products. Any unauthorised use of this Safety Data Sheet is strictly prohibited and may result in legal action being taken by HP. *** |
| GHS product identifier | C5078Series |
| Version # | 07 |
| Issue date | 22-Nov-2016 |
| Revision date | 30-Mar-2021 |
| Supersedes date | 23-Mar-2021 |
| Recommended use | Inkjet printing |
| Recommended Restrictions | Not available. |
| Manufacturer | HP Deutschland GmbH Schickardstrasse 32 71034 Böblingen Germany |
| HP Inc. health effect line (Toll-free within US) (Direct) | 1-800-457-4209 1-760-710-0048 |
| HP Inc. Customer Care Line (Toll-free within the US) (Direct) | 1-800-474-6836 1-208-323-2551 |
| Email: | hpcustomer.inquiries@hp.com |

2. Hazards identification

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| GHS classification | |
| Physical hazards | Not classified. |
| Health hazards | Not classified. |
| Environmental hazards | Not classified. |
| GHS label elements | |
| Signal word | None. |
| Hazard symbols | None. |
| Precautionary statement | |
| Prevention | Not available. |
| Response | Not available. |
| Storage | Not available. |
| Disposal | Not available. |
| Other hazards which do not result in classification | Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA. Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Complete toxicity data are not available for this specific formulation. |
| Supplemental information | 2-pyrrolidone: Specific Concentration Limits, Reproductive toxicity Category 1B, fertility or the unborn child 3%. Mixture classification threshold based on data related to developmental toxicity in animals. No adverse effects on sexual function or damage to fertility have been observed in an animal study. See Section 11. |

3. Composition/information on ingredients

| Components | CAS # | Percent |
|--|-----------|---------|
| Water | 7732-18-5 | 75-85 |
| 2-pyrrolidone | 616-45-5 | <3 |
| Ethoxylated-2,4,7,9-tetramethyl-5-decyn-4,7-diol | 9014-85-1 | <0.1 |
| 1,2-Benzisothiazolin-3-one | 2634-33-5 | <0.05 |

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| Composition comments | This ink supply contains an aqueous ink formulation. Carbon black is present only in a bound form in this preparation. 2-pyrrolidone: Specific Concentration Limit 3%. Mixture classification threshold based on data related to developmental toxicity in animals. No adverse effects on sexual function or damage to fertility have been observed in an animal study. See Section 11. |
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4. First aid measures

First aid procedures

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| Inhalation | Move to fresh air. If symptoms persist, get medical attention. |
| Skin | Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention. |
| Eye | Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention. |
| Ingestion | If ingestion of a large amount does occur, seek medical attention. |

Most important symptoms and effects, both acute and delayed Not available.

Notes to physician Not available.

5. Fire-fighting measures

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| Suitable extinguishing media | CO2, water, dry chemical, or foam |
| Unsuitable extinguishing media | None known. |
| Specific hazards arising from the chemical | Not available. |
| Protective equipment and precautions for firefighters | Not available. |
| Specific methods | None established. |

6. Accidental release measures

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| Personal precautions | Wear appropriate personal protective equipment. |
| Environmental precautions | Do not let product enter drains. Do not flush into surface water or sanitary sewer system. |
| Methods for containment | Not available. |
| Methods for cleaning up | Soak up with inert absorbent material. |

7. Handling and storage

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| Handling | Avoid contact with skin, eyes and clothing. |
| Storage | Keep out of the reach of children. Keep away from excessive heat or cold. |

8. Exposure controls / personal protection

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| Occupational exposure limits | No exposure limits noted for ingredient(s). |
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Exposure guidelines | Exposure limits have not been established for this product. |
| Recommended monitoring procedures | Not available. |
| Personal protective equipment | |
| Eye/face protection | Not available. |
| Skin protection | Use personal protective equipment to minimize exposure to skin and eye. |
| Respiratory protection | Not available. |

9. Physical and chemical properties

Appearance

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| Physical state | Liquid. |
| Color | Black. |
| Form | Not available. |
| Odor | Not available. |
| Odor threshold | Not available. |
| pH | 7.8 - 8.8 |
| Melting point/Freezing point | Not available. |
| Boiling point | Not determined |
| Flash point | > 230.0 °F (> 110.0 °C) Pensky-Martens Closed Cup |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | Not available. |
| Flammability limits in air, lower, % by volume | Not determined |
| Flammability limits in air, upper, % by volume | Not available. |
| Vapor pressure | Not determined |
| Vapor density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Soluble in water |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | >= 2 cp |
| VOC (Weight %) | < 20 g/l Estimated |
| Percent volatile | 3.3 % estimated |
| Other data | |
| Oxidizing properties | Not determined |

10. Stability and reactivity

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| Chemical stability | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | Will not occur. |
| Conditions to avoid | Not available. |
| Incompatible materials | Incompatible with strong bases and oxidizing agents. |
| Hazardous decomposition products | Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |

11. Toxicological information

Toxicological data

| Components | Species | Test Results |
|--|--|--------------|
| 2-pyrrolidone (CAS 616-45-5) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | > 5000 mg/kg |
| Acute toxicity | Based on available data, the classification criteria are not met. | |
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. | |
| Serious eye damage/eye irritation | Based on available data, the classification criteria are not met. Not classified as an irritant according to, OECD 405. | |
| Respiratory sensitizer | Based on available data, the classification criteria are not met. | |
| Skin sensitization | Based on available data, the classification criteria are not met. | |
| Mutagenicity | Based on available data, the classification criteria are not met. Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium) | |

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| Carcinogenicity | Based on available data, the classification criteria are not met. Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation. |
| Reproductive toxicity | Based on available data, the classification criteria are not met. 2-pyrrolidone: This component showed developmental effects only at high doses that were toxic to pregnant test animals (OECD Testing Guideline 414: Prenatal Developmental Toxicity Study). Uptake by people of small doses is not expected to cause developmental toxicity. This component has not caused adverse effects on sexual function or damage to fertility in an animal study (OECD Testing Guideline 443: Extended One-Generation Reproductive Toxicity Study). |
| Specific target organ toxicity - single exposure | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity - repeated exposure | Based on available data, the classification criteria are not met. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |
| Other information | Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures. |

12. Ecological information

Ecotoxicological data

| Product | Species | Test Results |
|-------------------|----------------|--|
| C5078Series | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Fish | LC50 | Fathead minnow (<i>Pimephales promelas</i>) > 750 mg/l, 96 hours |
| Components | Species | Test Results |

2-pyrrolidone (CAS 616-45-5)

Aquatic

| | | | |
|-----------|------|-------------------------------------|----------------------|
| Crustacea | EC50 | Water flea (<i>Daphnia pulex</i>) | 13.21 mg/l, 48 hours |
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Bioaccumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

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|---------------|-------|
| 2-pyrrolidone | -0.85 |
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13. Disposal considerations

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| Disposal methods | Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit http://www.hp.com/recycle . |
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14. Transport information

DOT

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| UN number | Not available. |
| UN proper shipping name | Not Regulated |
| Transport hazard class(es) | |
| Class | Not available. |
| Subsidiary risk | - |
| Packing group | Not available. |
| Environmental hazards | |
| Marine pollutant | No |
| Special precautions for user | Not available. |

IATA

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|-----------------------------------|----------------|
| UN number | Not available. |
| UN proper shipping name | Not Regulated |
| Transport hazard class(es) | |
| Class | Not available. |
| Subsidiary risk | - |

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|-------------------------------------|--|
| Packing group | Not available. |
| Environmental hazards | No |
| Special precautions for user | Not available. |
| IMDG | |
| UN number | Not available. |
| UN proper shipping name | Not Regulated |
| Transport hazard class(es) | |
| Class | Not available. |
| Subsidiary risk | - |
| Packing group | Not available. |
| Transport hazard class(es) | |
| Marine pollutant | No |
| EmS | Not available. |
| Special precautions for user | Not available. |
| ADR | |
| UN number | Not available. |
| UN proper shipping name | Not Regulated |
| Transport hazard class(es) | |
| Class | Not available. |
| Subsidiary risk | - |
| Hazard No. (ADR) | Not available. |
| Tunnel restriction code | Not available. |
| Packing group | Not available. |
| Environmental hazards | No |
| Special precautions for user | Not available. |
| Further information | Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. |
| | Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable. |

15. Regulatory information

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| Regulatory information | All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China. |
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16. Other information

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| Disclaimer | This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries. |
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This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

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| SDS sections updated | 3. Composition / Information on Ingredients: Disclosure Overrides |
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Explanation of abbreviations

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|---------------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| CAS | Chemical Abstracts Service |
| CERCLA | Comprehensive Environmental Response Compensation and Liability Act |
| CFR | Code of Federal Regulations |
| COC | Cleveland Open Cup |
| DOT | Department of Transportation |
| EPCRA | Emergency Planning and Community Right-to-Know Act (aka SARA) |
| IARC | International Agency for Research on Cancer |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| RCRA | Resource Conservation and Recovery Act |
| REC | Recommended |
| REL | Recommended Exposure Limit |
| SARA | Superfund Amendments and Reauthorization Act of 1986 |
| STEL | Short-Term Exposure Limit |
| TCLP | Toxicity Characteristics Leaching Procedure |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| VOC | Volatile Organic Compounds |